

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	10/791244	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:41
L2	5	channel adj estimat\$3 same past same future same center	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:05
L3	9	channel adj estimat\$3 and past same future same center	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:10
L4	4228	375/346	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L5	2131	375/285	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L6	2561	455/296	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L7	796	327/310	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55

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L8	361	327/384	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L9	759	327/551	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L10	241	channel adj estimat\$3 and past same future	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L11	32	10 and 4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L12	13	10 and 5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:02
L13	3	10 and 6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00
L14	1	10 and 7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00

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L15	1	10 and 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00
L16	1	10 and 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L17	1	(channel adj estimat\$3 and past same future same center).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00
L18	35	channel adj estimat\$3 with past with future	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:08
L21	1	channel adj estimat\$3 with past with future and minimum adj mean adj square adj error	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:09
L22	3	channel adj estimat\$3 and past with future with (center or present or actual)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:11
L23	1	channel adj estimat\$3 with matrix and past with future with (center or present or actual)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:11

## EAST Search History

S1	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/27 08:40
S2	9	channel adj estimat\$3 with updat\$3 with (minimum adj mean adj squareS1 adj error MMSE) same channel near estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:46
S3	15	(past previous) with channel adj estimat\$4 and (middle center present) with channel adj estimat\$3 and (future next) with channel adj estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:47
S4	167	(past previous) with channel adj estimat\$4 and (future next) with channel adj estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:47
S5	91	(past previous) with channel adj estimat\$4 same (future next) with channel adj estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:47
S8	0	S5 and S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:48
S9	11	updat\$3 with (minimum adj mean adj squareS1 adj error MMSE) same channel near estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:48

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S15	2	(past previous) with channel adj estimat\$4 and (middle center present) with channel adj estimat\$3 and (future next) with channel adj estimat\$3 and (minimum adj mean adj squares adj error MMSE) same channel near estimat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:52
S16	4	(US-20030210752-\$ or US-20020136158-\$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:52

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For use in estimating a desired portion of data of the received vector, a **past**, a **center** and a **future** portion of a **channel estimate matrix** is determined. ...

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**Reduced complexity sliding window based equalizer - Patent 20060034398**

H, using the **future** and **past** portions of the channel response **matrix**, (step 72). ..... The complexity of processing the **channel estimate** varies for each ...

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**[PDF] A bit-streaming, pipelined multiuser detector for wireless ...**

bits receive interference from the **past** or **future** overlapping sym- .... of the interfering users and the desired user. The **center matrix** ...

[ieeexplore.ieee.org/iel5/7344/19936/00922187.pdf](http://ieeexplore.ieee.org/iel5/7344/19936/00922187.pdf) - Similar pages - Note this

**[PDF] A Stochastic Subspace Algorithm For Blind Channel Identification ...**

by IMEC (Flemish Interuniversity Microelectronics **Center**) and. IUAP P4-02. (1997-2001):

.... the columns of the block Hankel **matrix** of **past** outputs  $Y_p$ , ...

[ieeexplore.ieee.org/iel4/6110/16398/00761234.pdf?arnumber=761234](http://ieeexplore.ieee.org/iel4/6110/16398/00761234.pdf?arnumber=761234) -

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**[PDF] Real-Time DSP Multiprocessor Implementation for Future Wireless ...**

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inversion step is avoided when updating the **channel estimate**. .... for Mobile

Communication: **Past**, Present and **Future**," IEEE Communications Magazine, ...

[cmc.rice.edu/docs/docs/Jon2000Aug5Real-TimeD.pdf](http://cmc.rice.edu/docs/docs/Jon2000Aug5Real-TimeD.pdf) - Similar pages - Note this

**[PS] Real-Time Algorithms and Architectures for Multiuser Channel ...**

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It is also possible to feed the **channel estimate matrix** directly into ... from interference caused by the **past** or **future** overlapping symbols of different ...

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**Reduced complexity sliding window based equalizer - US Patent 7042967**

H, using the **future** and **past** portions of the channel response **matrix**, (step 72). ..... Every

time a new **channel estimate** is obtained, the channel filter is ...

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**Baseband processor with look-ahead parameter estimation ...**

In the present invention, **past**, current, and possibly **future** symbols would be hypothesized, and there would be a **channel estimate** associated with each. ...

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**[PDF] Task Partitioning Wireless Base-station Receiver Algorithms on ...**

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stands. for the partial correlation between the **future** bits. of the interfering users and the desired user. The. **center matrix** ...

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the columns of the block Hankel **matrix of past** outputs ... Similarly we project the **past** outputs onto the **future** out- .... the **channel estimate**: ...

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**Reduced complexity sliding window based equalizer - Patent 20050031024**

The **past** and **future** portions of the **channel estimate matrix** are used to adjust factors in the **minimum mean square error** algorithm. ...

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**[PDF] Real-time algorithms and architectures for multiuser channel ...**

**past** or **future** overlapping symbols of different asynchronous .... is related to the RLS approach for **minimum mean-square-error**. (MMSE) estimation. ...

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**[PDF] Real-time algorithms and architectures for multiuser channel ...**

It is also possible to feed the **channel estimate matrix** di- ... **past** or **future** overlapping symbols of different asynchronous ...

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**Reduced complexity sliding window based equalizer - US Patent 7042967**

2 is an illustration of a **center** portion of the banded channel response matrix. ..... H, using the **future** and **past** portions of the channel response matrix, ...

[www.patentstorm.us/patents/7042967-description.html](http://www.patentstorm.us/patents/7042967-description.html) - 71k -

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All of the words

Jan 2003

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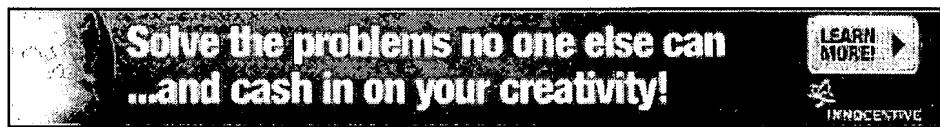
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1. [Fast Computation of Channel-Estimate Based Equalizers in Packet Data...](#) [PS-327K]  
Aug 2003  
...Computation of **Channel-Estimate** Based Equalizers...nd that a **minimum mean** {square{error decision feedback...the use of **channel{estimate{based** equalization...with GE R & D **Center**, Schenectady...lters of a **minimum mean{square** {error de- cision...  
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2. [Reduced Rank Adaptive Filtering Applied to Interference Mitigation in Wideband CDMA Systems](#)

**Sud, Seema** , May 2002

...research presented here shows how **minimum mean square error** (MMSE) receivers implemented via...18 2.3.2 **Minimum Mean Square Error** (MMSE): The Wiener Filter...Requirements . . . . . 44 4 **Minimum Mean Square Error** (MMSE)/Rake Receivers 47 4.1 The...

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...implementation in this paper. The ML **channel estimate** is obtained using the knowledge of...users. It is also possible to feed the **channel estimate** matrix di- rectly into the multistage...direct computation of the ML based **channel estimate** involves the computation of the correlation...

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4. [Ultra-wideband Small Scale Channel Modeling and its Application to Receiver Design](#)

**McKinstry, David R.** , Jul 2003

...him and I believe his guidance has well prepared me for the **future**. I also thank Dr.

Jeffrey Reed and Dr. Dennis Sweeney for...214 9.1 Summary and **Future** Work...bicones, NLOS... 92 Figure 4-1. 1 GHz bandwidth pulse with **center** frequency 4 GHz ..... 96 Figure...

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IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, VOL. 16, NO. 8, OCTOBER, 1998 1459 A Space-Time Coding Modem for High-Data-Rate Wireless Communications Ayman F. Naguib, Member, IEEE, Vahid Tarokh, Member, IEEE, Nambirajan Seshadri, Senior Member, IEEE, and A. [http://www.comsoc.org/sac/private/1998/oct/pdf/16sac08...]  
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**6.** [Uppsala University Signals and Systems THE MULTIVARIABLE DECISION... \[PS-3MB\]](#)  
Dec 1999  
...parameters can be tuned to give a **minimum meansquare error**. The second DFE is derived...equations for an optimum realizable **minimum meansquare error** DFE are obtained. The zero forcing...obtaining the parameters of a **minimum meansquare error** DFE and present the conditions...  
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**7.** [Ultra-wideband small scale channel modeling and its application to receiver design 1979- McKinstry, David R., , Jan 2003](#)  
...him and I believe his guidance has well prepared me for the **future**. I also thank Dr. Jeffrey Reed and Dr. Dennis Sweeney for...214 9.1 Summary and **Future** Work...bicones, NLOS... 92 Figure 4-1. 1 GHz bandwidth pulse with **center** frequency 4 GHz ..... 96 Figure...

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**8.** [Improved Receivers for Digital High Frequency Communications : Iterative Channel Estimation, Equalization, and Decoding ...](#)  
**Otnes, Roald** , Jan 2002  
...NTNU in Trondheim, but reside at UniK – University Graduate **Center** (Universitetsstudiene på Kjeller) next door to FFI. UniK...I became part of the newly started research program FUCS (**Future** Communication Systems) at UniK. In this program, the student...organizing my employment; Tore Ulversøy for supporting efforts on **future** implementation of the ideas presented in this dissertation...  
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**9.** [Feasibility of Smart Antennas for the Small Wireless Terminals](#)  
**Mostafa, Raqibul** , Apr 2003  
...is relatively a new concept that has seen its growth over the **past** few years. Both these smart antenna operations have been traditionally...159 10.2 **Future** work...  
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**10.** [12. Blind Methods for Wireless Communication Receivers \[PDF-698K\]](#)  
Jan 2003  
...Nokia Research **Center**, Radio Communications...order to update the **channel estimate**, thus wasting communication...likelihood, and **minimum-mean-square error**

estimator. Typical...equalizer updates the **channel estimate** at the arrival...  
[<http://www.calstatela.edu/centers/berp/docs/Blind%20Me...>]  
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**11.** [Reduced rank adaptive filtering applied to interference mitigation in wideband CDMA systems](#)

**1971- Sud, Seema, , Jan 2002**

...research presented here shows how **minimum mean square error** (MMSE) receivers implemented via...18 2.3.2 **Minimum Mean Square Error** (MMSE): The Wiener Filter...Requirements . . . . . 44 4 **Minimum Mean Square Error** (MMSE)/Rake Receivers 47 4.1 The...

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Dec 2002

...Karampatsis. I would also like to thank all the present and **past** members of the Telecommunications Research Group who have provided...206 7.1 Recommendations for **future** research...

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**13.** [Layered space-time equalization for wireless MIMO systems](#)

**Zhu, Xu / Murch, Ross David, article, Jun 2002**

...Murch2 , Senior Member, IEEE **Center** for Wireless Information...high-speed data transmission in **future** wireless communications...best data streams in the **minimum mean square error** (MMSE) sense are selected...are referred to as the "**past**" signals, and are expressed...matrix associated with the "**past**" BmI signals, which is... ^][~ iii iii FBVA **past** HH zzy sVxWs...

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**14.** [sdma-ofdm-sample-chaps.dvi \[PDF-2MB\]](#)

Sep 2003

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**1966- Mostafa, Raqibul, , Jan 2003**

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**18. A Rapid Prototype of an IEEE802.11a Synchronizer**

**Olsson, Mattias** , Jan 2002

...MAC Medium-Access Controller ML Maximum Likelihood MMSE **Minimum-Mean-Square Error** NLS Non-Linear Squares OFDM Orthogonal Frequency Division...51 6 Conclusions 53 6.1 Ideas for **future** work . . . . . 54...sampling of the spectrum is no longer performed at the **center** of the sub carriers. As it can be seen from (2.6) this...

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**19. Code-aided interference suppression for DS/CDMA overlay systems - Proceedings of the IEEE** [[PDF-2MB](#)]

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...networking is largely **centered** and they are of increasing...consideration, the **past** quarter century has...this area over the **past** 15 years. The focus...part by the New Jersey **Center** for Wireless Telecommunications...attention over the **past** several decades, attracting...the optimum [in the **minimum mean square error** (MMSE) sense] prediction...

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**20. SYSTEM AND METHOD FOR NEAR OPTIMAL JOINT CHANNEL ESTIMATION AND DATA DETECTION FOR COFDM SYSTEMS**

**LIN, Lang / CHUANG, Justin C. / LI, Ye (Geoffrey) (AT & T CORP.)**, PATENT COOPERATION TREATY APPLICATION, Aug 2001  
patno:WO0158105

...c), the corresponding **channel estimate**  $H$  (c) can be found. Consequently...7) to obtain initial **channel estimate** explicitly without resorting...time instant  $n$ , given a **channel estimate**  $f_{l,n}$  I initially obtained...designed to achieve the **minimum mean square error** (NMSE) of estimation...

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21. **METHOD AND APPARATUS FOR A MIMO-OFDM COMMUNICATION SYSTEM**

**MEDVEDEV, Irina (QUALCOMM INCORPORATED), PATENT COOPERATION TREATY APPLICATION**, Jul 2003

patno:WO03058871

...from the base station, and an "active" terminal is one that desires downlink and/or uplink data transmission in an upcoming or **future** time slot. Active terminals may include terminals that are currently communicating. [1026] For the example shown in FIG. 1...

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22. **BLOCK-ITERATIVE DECISION FEEDBACK EQUALIZER WITH ERROR-CONROL CODING**

**CHAN, Albert M. / WORNELL, Gregory W. (MASSACHUSETTS INSTITUTE OF TECHNOLOGY), PATENT COOPERATION TREATY APPLICATION**, Sep 2001

patno:WO0171996

...affects symbols in the **past**. Postcursor ISI is caused...affects symbols in the **future**. ISI can lead to severe...enhancement, even when **minimum mean-square error** (MMSE) design criteria...conventional system employing a **minimum mean-square error** DFE on severe -ISI channels...equalizers, including the **minimum mean-square error** decision-feedback equalizer...

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23. **ALLOCATION OF UPLINK RESOURCES IN A MULTI-INPUT MULTI-OUTPUT (MIMO) COMMUNICATION SYSTEM**

**HOWARD, Steven J. (QUALCOMM INCORPORATED), PATENT COOPERATION TREATY APPLICATION**, Nov 2002

patno:WO02093782

...estimates the channel response for "active"; terminals, which are terminals desiring to transmit data during an upcoming or a **future** transmission interval. Active terminals may include terminals that are currently transmitting. The channel estimates may be...

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...nite number of **past** and **future** data symbols is...on non{adaptive **channel{estimate** {based methods...proposed non{adaptive **channel{estimate**{based procedure...that achieves the **minimum mean square error** : MMSE UTC = 1...  
[<http://www.utdallas.edu/~aldhahir/teq.ps>]

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25. [Uppsala University Signals and Systems THE MULTIVARIABLE DECISION... \[PDF-2MB\]](#)

Dec 1999

...parameters can be tuned to give a **minimum mean-square error**. The second DFE is de- rived under...equations for an optimum realizable **minimum mean-square error** DFE are obtained. The zero-forcing...obtaining the param- eters of a **minimum mean- square error** DFE and present the conditions...

[<http://www.signal.uu.se/Publications/pdf/a993.pdf>]

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26. [MMSE Decision Feedback Equalizers : Finite-Length Results Naofal M.W.... \[PS-313K\]](#)

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...Al-Dhahir is now with GE R&D Center in Schenectady, NY 12309...on the innite{length **minimum{mean{square{error** decision feedback equalizer...4)) that consists of **past** symbols  $x k`1:k`$  (assumed...correctly detected) and **N f future** symbols  $x k+Nf`1:k+1$  that...e 0 (16) resulting in a **minimum mean square error** (MMSE) of : MMSE = 1 e...  
[<http://www.utdallas.edu/~aldhahir/firdfe.ps>]

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28. [Adaptive Wireless Transceivers: TurboCoded, TurboEqualised and... \[PS-8MB\]](#)

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